# Fall 2013 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including USACE Erosion Survey

### Sacramento River Basin

RD0817	Overall LMA Rating	Total LMA Miles	- Overall Livia Tilleshold Felcent is less than 10.00%,					
Reclamation District No. 0817 Carlin	M *	7.69	Rating is M		resent, so	ine Overan	LIVIA	
			nce Deficiancy		Enforcement Design & Obsoles			
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	
Earthen Levee			I					
Vegetation		0.01	0.04	0.52%	0.01			
Encroachments					2.09			
Animal Control		0.01	0.04	0.52%				
Slope Stability							1.11	
Flood Preparedness & Training	0.08		0.08	1.04%				
Supplemental						1	1	
DWR UCIP Field Study					0.03			
LMA Totals:	0.08	0.02	0.16	2.08% *	2.13	0.00	1.11	0.00
Unit No. 01 South Dry Creek LB	Overall Unit Rating	Total Unit Miles						
RD0817	Α	3.82						
		Maintena	nce Deficiancy		Enforcement Design 8 Obsole			
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee						1	1	
Encroachments					2.07			
Supplemental			I	I		1	1	
DWR UCIP Field Study					0.02			
Unit Totals:	0.00	0.00	0.00	0.00%	2.09	0.00	0.00	0.00
Unit No. 02 Bear River RB	Overall Unit Rating	Total Unit Miles		Threshold Perceres are present, so				
RD0817	M *	3.87	instead of A.					
Dated Here		Maintena	nce Deficiancy		Enforcement		Design & System Obsolescence	
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	
Earthen Levee								
Vegetation		0.01	0.04	1.03%	0.01			
Encroachments					0.02			
Animal Control		0.01	0.04	1.03%				
Slope Stability							1.11	
Supplemental			1	ı				
DWR UCIP Field Study					0.01			
Unit Totals:	0.00	0.02	0.08	2.07% *	0.04	0.00	1.11	0.00

# **LMA District Cover Sheet**

### Fall 2013 Levee Inspection Results

# **Reclamation District No. 0817 Carlin**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)				
* Overall LMA Rating (Fall Only)	Rating (Fall Only) M							
** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.								
* SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.								
FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indiction of risk.								
Comments								

### **Unit Cover Sheet**

## Fall 2013 Levee Inspection Results

### **Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles
Unit No. 01 South Dry Creek	Left	3.82

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			Α	
Date of Inspection	04/30/2013 - 04/30/2013		10/15/2013 - 10/15/2013	
DWR Inspector	Rick Burnett		Matthew Hoffman	
Accompanied By	Joe Conant RD 817		Joe Conant RD 817	
			Tom Engler RD 817	

#### Summer & Winter Inspections —

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

# Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 South Dry Creek	Left	3.82	10/15/2013 10/15/2013	Matthew Hoffman

[	- MR	Levee	Mile	Category	Item	Location	Rating	Action/Comment	GPS Latitude	e/Longitude	Issue No.
3	2	Start	End	catogory	110111	ion	+ ਕੁ	/ tottoriii ooriiiii oit	Start	End	Photo
	1			Earthen Levee	Flood Preparedness & Training	LS	M Ma	Inspector Comments: No training records were available during the inspection.	0	0	2
_									DWR ID: DWR_RD	0817_01_s _ 2012_	_2
	2			Earthen Levee	Operations & Maintenance Manuals	LS	A Ma		0 0	0	9
_									DWR ID: DWR_RD	0817_01_s _ 2013 <sub>_</sub>	_9
	3			Earthen Levee	Emergency Supplies & Equipment	LS	A Ma		0	0	10
_									DWR ID: DWR_RD	0817_01_s _ 2013_	_10
	4	0.00	3.75	Earthen Levee	Vegetation	WS		V2 : Remove the wild growth other than native grasses from the levee slopes.	38.984695 ° -121.506115 ° - DWR ID: DWR_RD	121.455139°	7 Y _7
_	5	0.00	3.75	Earthen Levee	Vegetation	LS		V2 : Remove the wild growth other than native grasses from the levee slopes.	38.984695 ° -121.506115 ° - DWR ID: DWR_RD		
	6	1.34	1.34	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:12284 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Damaged slide gate on WS of the levee.Not properly abandoned. FIELD_STRUCT_DESC: Abandoned 18-inch corrugated metal drainpipe through levee, 14.9 feet below the crown. Slide gate on the waterward end. O&M Manual Sac 146, November 1962. FS Date: 4/16/2013	38.997961 ° - 38.997961 ° -	121.488455°	1
	7	1.34	1.34	Supplemental	DWR UCIP Field Study	LS	M En	Inspector Comments: FS_ID:12286 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Damaged slide gate on WS of the levee.Not properly abandoned. FIELD_STRUCT_DESC: Abandoned 18-inch corrugated metal drainpipe through levee, 14.9 feet below the crown. Slide gate on the waterward end. O&M Manual Sac 146, November 1962. FS Date: 4/16/2013	DWR ID: DWR_RD 38.997961 ° - 38.997961 ° -	121.488455 ° 121.488455 °	4
	8	1.74	3.81	Earthen Levee	Encroachments	LS	M En	FE : Fence Inspector Comments: Wire fence at L/S levee toe.	39.002941 ° -121.484856 ° - DWR ID: DWR_RD		8 Y _8

\* Location

LS: Land Side

WS: Water Side

CR: Crown

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 South Dry Creek	Left	3.82	10/15/2013 10/15/2013	Matthew Hoffman

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	3.75
Location	Water Side
Category	Earthen Levee
Item	Vegetation
This whate was tales for	

This photo was taken from the crown of the levee facing west looking at the vegetation on the waterward side of the levee.

mhoffman\_f\_20131016\_655.JPG

Levee Mile Report Line	8
Start Levee Mile	1.74
End Levee Mile	3.81
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Wire fence at L/S levee toe.

mhoffman\_f\_20130917\_098.JPG





### **Unit Cover Sheet**

## Fall 2013 Levee Inspection Results

### **Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles
Unit No. 02 Bear River	Right	3.87

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	04/30/2013 - 04/30/2013		10/15/2013 - 10/15/2013	
DWR Inspector	Rick Burnett		Matthew Hoffman	
Accompanied By	Joe Conant RD 817		Joe Conant RD 817	
			Tom Engler RD 817	

#### Summer & Winter Inspections —

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- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

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The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

# Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Bear River	Right	3.87	10/15/2013 10/15/2013	Matthew Hoffman

LMR No.	Levee	Mile End	Category	Item	Rating  ** +  Location  *	Action/Comment	GPS Latitude/Longitude   Issue No.   Start   End   Photo
1	0.01	1.66	Earthen Levee	Vegetation		V2 : Remove the wild growth other than native grasses from the levee slopes.	38.984502 ° 38.987405 ° 5 -121.505957 ° -121.476167 ° DWR ID: DWR_RD0817_02_f _ 2012_5
2	0.01	1.66	Earthen Levee	Vegetation	WSA/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.984502 ° 38.987405 ° 7 -121.505958 ° -121.476167 ° DWR ID: DWR_RD0817_02_f _ 2012_7
3	0.27	0.27	Earthen Levee	Vegetation	LS U Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Berry bushes have been sprayed but still need to be removed.	38.984308 ° 38.984308 ° 9 -121.501561 ° -121.501561 ° Y
4	1.54	1.54	Earthen Levee	Encroachments	LS M En	PR : Prunings	38.986864 ° 38.986864 ° 11 -121.478243 ° -121.478243 ° Y DWR ID: DWR_RD0817_02_s_2013_11
5	1.76	1.76	Earthen Levee	Vegetation	LS M En	V6 : Landscaping	38.987851 ° 38.987851 ° 2 -121.474383 ° -121.474383 ° DWR ID: DWR_RD0817_02_f_2013_2
6	1.96	1.96	Earthen Levee	Encroachments	LS M En	PR : Prunings	38.988759 ° 38.988759 ° 3 -121.470871 ° -121.470871 ° DWR ID: DWR_RD0817_02_f _ 2013_3
7	2.08	3.19	Earthen Levee	Slope Stability	LS M Ob	S1 : Repair slope instability.	38.989338 ° 38.994124 ° 10 -121.468640 ° -121.449448 ° Y DWR ID: DWR_RD0817_02_s_2012_10
8	2.12	2.92	Earthen Levee	Vegetation	WSA/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.989468 ° 38.992609 ° 13 -121.468106 ° -121.453976 ° DWR ID: DWR_RD0817_02_f _ 2013_13
9	2.12	2.92	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.989469 ° 38.992608 ° 12 -121.468106 ° -121.453976 ° DWR ID: DWR_RD0817_02_f _ 2013_12
10	2.17	2.17	Earthen Levee	Animal Control	WS U Ma	A1 : Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Medium sized animal burrow in the the waterward side of the levee slope.	38.989727 ° 38.989727 ° 14 -121.467162 ° -121.467162 ° Y
11	2.40	2.40	Supplementa	I DWR UCIP Field Study	WS M En	Inspector Comments: FS_ID:12328 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not properly abandoned crossing. FIELD_STRUCT_DESC: An abandoned 24-inch pipe through the levee, 12.0 feet below the crown. Slide gate in corrugated metal pipe riser on the waterward slope. Abandoned pump and concrete riser on the bank. A tall CMP riser with 8-inch siphon breaker pipe at the landward toe. FS Date: 4/17/2013	DWR ID: DWR_RD0817_02_f _ 2013_14  38.990705 ° -121.463377 ° 8  38.990705 ° -121.463377 ° Y

\* Location

LS: Land Side

WS: Water Side

CR: Crown

\*\* Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Mainter

Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

# Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Bear River	Right	3.87	10/15/2013 10/15/2013	Matthew Hoffman

LMR	Levee Mile		Category	Loca **		Action/Comment	GPS Latitud	Issue No.	
No.	Start	ee Mile   Category   Item   * Arting   * Art		Action/Comment	Start	End	Photo		
12	3.74	3.74	Earthen Levee	Slope Stability		S1 : Repair slope instability. Inspector Comments: Seperation line in the soil on the landward side between the clay and the sand.	38.992656 ° 121.439508 °	38.992656 ° -121.439508 °	
							DWR ID: DWR F	D0817 02 f 2013	6

# Levee Inspection Report By Mile - Fall 2013

# **Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Bear River	Right	3.87	10/15/2013 10/15/2013	Matthew Hoffman

Levee Mile Report Line	3
Start Levee Mile	0.27
End Levee Mile	0.27
Location	Land Side
Category	Earthen Levee
Item	Vegetation
T1: 1	

This photo was taken from the crown of the levee facing east looking at the blackberry bushes on the landward slope of the levee. They have been sprayed but still need to be removed.

mhoffman\_f\_20131016\_656.JPG

Levee Mile Report Line	4
Start Levee Mile	1.54
End Levee Mile	1.54
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Pruning pile at L/S levee toe.

mhoffman\_f\_20130917\_104.JPG

Levee Mile Report Line	7
Start Levee Mile	2.08
End Levee Mile	3.19
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Levee mile 2.08, this photo shows the slope is less than required, this is the downstream limit of the site, this is the waterside slope.

mhoffman\_f\_20130917\_103.jpg







Location LS: Land Side WS : Water Side CR : Crown Rating

M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated : Corrected : Acceptable but Monitor & Maintain

+ Issue Type

Ma: Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

## **Levee Inspection Report By Mile - Fall 2013**

# **Reclamation District No. 0817 Carlin**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Bear River	Right	3.87	10/15/2013 10/15/2013	Matthew Hoffman

Levee Mile Report Line	10
Start Levee Mile	2.17
End Levee Mile	2.17
Location	Water Side
Category	Earthen Levee
Item	Animal Control
T1: 1 ( ) (	

This photo was taken from the crown of the levee facing east looking at a medium sized animal burrow in the the waterward side of the levee slope.

mhoffman f 20131016 657.JPG

Levee Mile Report Line	11
Start Levee Mile	2.40
End Levee Mile	2.40
Location	Water Side
Category	Supplemental
Item	DWR UCIP Field Study

Levee Crown: CMP riser with slide gate on WS and slender CMP riser with siphon breaker on LS.

UCIP\_6483.jpg

Levee Mile Report Line	12
Start Levee Mile	3.74
End Levee Mile	3.74
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

This photo was taken from the crown of the levee facing east looking at the seperation line in the soil on the land ward side between the clay and the sand.

mhoffman\_f\_20131016\_658.JPG







Location LS: Land Side WS : Water Side CR : Crown Rating

M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated : Corrected : Acceptable but Monitor & Maintain

+ Issue Type

Ma: Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement